

***Celebration of Thirty Years of Solid State Theory Team***  
**(a.k.a. Zunger Fest)**

**SERF Auditorium, NREL**

**8:30 am-5 pm, Monday, March 23, 2009**

**Agenda**

- 8:00 Breakfast (SERF Auditorium)  
8:30 Welcome remarks (Steve Hammond)
- 8:35 Suhuai Wei (NREL)  
**on CMS group research activities**
- 9:10 Hiroshi Katayama-Yoshida (Osaka University, Japan)  
**Spinodal Nanotechnology as A New Class of Bottom-up Nanotechnology:  
Application to Spintronics, Spincaloritronics, Nano-Catalyst and High-  
efficiency Energy Conversion Devices**
- 9:45 Marco Califano (University of Leeds, UK)  
**Non-radiative excited state relaxation processes in InAs nanocrystals.**
- 10:20 Coffee Break (SERF C111, next door to Auditorium)
- 10:50 Gus Hart (Brigham Young University)  
**One billion atom simulations: enabling large lattice Monte Carlo  
simulations via a new representation of derivative structures**
- 11:25 Priya Mahadevan (S.N. Bose National Centre for Basic Sciences, India)  
**Do binary nanocrystals with only one type of atoms on the surface form?**
- 12:00 Lunch Break (SERF C111, Solarium)  
1:00 Cake (SERF Solarium)  
1:30 Picture taking
- 1:30 John Shumway (Arizona State University)  
**Linear and non-linear path integral response theory for self-assembled  
quantum dots and wires**
- 2:05 Fernando Reboredo (Oak Ridge National Lab)  
**When nothing really matters: finding the zeros of a many-body wave-  
function at the nanoscale**
- 2:40 Stephan Lany (NREL)  
**Predicting polaronic hole localization from first principles**
- 3:15 Coffee Break (SERF C111)
- 3:45 Lin-Wang Wang (Lawrence Berkeley National Lab)  
**Linear scaling electronic structure calculations**
- 4:20 Alex Zunger's remarks
- 6:30 Dinner at 240 Union